MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

January 5, 1994

TO: Gene Hall, Project Manager
Superfund Section
Environmental Response Division

FROM: Mike Baranoski, Geologist
Geological Services Section
Environmental Response Division

SUBJECT: Albion-Sheridan Landfill, Calhoun County, Test-pit Locations

Per your request, Geological Services Section staff has selected locations for proposed test-pitting. These locations are based on magnetic data collected during the Michigan Department of Natural Resources magnetic survey conducted on the landfill and patterns observed on the contour maps previously provided.

These proposed test-pitting locations represent areas from which a maximum magnetic response was recorded in an area of anomalously high residual magnetic or magnetic gradient readings. Locations also consider contoured data patterns. Multiple test-pitting locations are marked to cover areas with multiple maximums and of large areal extent.

These test-pit locations represent areas where the sources of recorded magnetic anomalies may originate and can assist in verifying the presence and location of these sources.

Due to interference of multiple magnetic bodies and unknown depth and orientation of magnetic bodies, the location of the magnetic body causing the anomaly is speculative. Geological Services Section selected these locations to optimize the verification of magnetic bodies (potential drums) in the landfill. No attempt was made to delineate the total extent of buried metal in each area. Excavation will be required if the total extent of the magnetic body is to be defined. Test-pitting should be followed by additional excavation.

Proposed test-pitting locations and station co-ordinates are provided on the attached pages. Geological Services Section looks forward to assisting in marking trenching locations and can provide additional guidance to insure effective verification. Please contact this section if trenching is scheduled and let me know if I can provide any additional assistance.

Attachments

Mike Baranoski amp

cc: B. P Shirey
C. Graff
W. Iversen

PROPOSED TEST-PITTING LOCATIONS AND STATION CO-ORDINATES

Begin trenching at southernmost station and finish at northern most station.

ORANGE AREAS

Anomaly 1, trench line 540, station 925-933

Anomaly 2, trench line 520, station 820-832

Anomaly 3a, trench line 560, station 725-737

Anomaly 3b, trench line 560, station 635-641

Anomaly 4, trench line 670, station 485-512

PURPLE AREAS

Anomaly 1a, trench line 180, station 205-226

Anomaly 1b, trench line 210, station 185-199

Anomaly 1c, trench line 260, station 190-211

Anomaly 1d, trench line 300, station 195-213

Anomaly 1e, trench line 390, station 225-240

Anomaly 2, trench line 500, station 30-38

Anomaly 3a, trench line 370, station 120-134

Anomaly 3b, trench line 400, station 100-118

Anomaly 3c, trench line 490, station 130-141

Anomaly 3d, trench line 510, station 120-128

Anomaly 4, trench line 480, station 295-304

Anomaly 5, trench line 420, station 935-946

Anomaly 6, trench line 360, station 960-977

PROPOSED TEST-PITTING LOCATIONS AND STATION CO-ORDINATES

GREEN AREA

Anomaly 1a, trench line 480, station 1340-1351

Anomaly 1b, trench line 510, station 1330-1336

Anomaly 2, trench line 500, station 1220-1226

Anomaly 3, trench line 130, station 1025-1037

Anomaly 4, trench line 110, station 970-978

Anomaly 5, trench line 240, station 905-912

Anomaly 6, trench line 300, station 885-894

Anomaly 7, trench line 90, station 830-838

Anomaly 8, trench line 90, station 775-787

Anomaly 9, trench line 220, station 735-746

Anomaly 10, trench line 390, station 630-639

Anomaly 11, trench line 290, station 620-628

Anomaly 12, trench line 150, station 590-600

Anomaly 13, trench line 110, station 565-573

Anomaly 14, trench line 70, station 380-388

Anomaly 15, trench line 170, station 345-354

Anomaly 16, trench line 390, station 585-591

Anomaly 17, trench line 430, station 500-508